₽ ∑ [<u> </u>	N [NAC	FAXP		T _A 2	•	• į	Hy [HCO S	√ S S	E S	C - , (.).e, r,	D (S G F)] N	Ð		T F8		● A	•		> ₩	γ Ρ	9	\$ •	э 🕀	₩C	\$	₩ *	↑	→	\$ 2	₩	И [¢ []				•	∑ (⊗)	ō	© 7	5 • (S _o o ^{>}	SYMBOLS
COMBINATION STARTER-DISCONNECT ENCLOSED MOLDED CASE CIRCUIT BREAKER 30A/2P UON (WALL RECESSED)	MAGNETIC STARTER	MOTOR (NUMBER REFERS TO MOTOR AND EQUIPMENT SCHEDULE SEE SCHEDULE FOR WIRING AND CONTROL REQUIREMENTS)	POWER POLE	SPECIAL FOLIDMENT CABINET AS NOTED	ARD OR MOTOR CONTR	LIGHTING AND APPLIANCE PANELBOARD	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT CABINET	FIRE ALARM EXTENSION CABINET	FIRE ALARM CONTROL BANE!	(PROVIDED BY DIVISION 8) TAMPER SWITCH (NUMBER INDICATES NUMBER OF	INTEGRAL MAGNETIC DOOR CLOSER	MAGNETIC DOOR HOLD OPEN	STROBE LIGHT	CHIME ("S" INDICATES WITH STROBE LIGHT)	SPEAKER HORN ("S" INDICATES WITH STROBE LIGHT)	HORN ("S" INDICATES WITH STROBE LIGHT)	INDICATES WITH GUARD, "E" INDICATES FOR ELEVATOR RECALL) COMBINATION FIRE/SMOKE DAMPER OR SMOKE DAMPER BY DIVISION 15	INDICATES SLEI	DUCT PHOTOELECTRIC DETECTOR	RATE OF RISE DETECTOR	FIRE ALARM: MANUAL STATION	UNDER FLOOR DUCT	PHOTO CELL TRANSFORMER	TIME SWITCH	T, ADDITIONAL SY	щ.	O.A., PROVIDE	DOUBLE DUPLEX RECEPTACLE ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER)		TMGB GROUND BAR	LOW VOLTAGE SWITCH	DIMMER (600 WATT UNLESS OTHERWISE NOTED)	MOMENTARY CONTACT	FLUORESCENT DIMMER	WITH PILOT LIGHT (CAN BE USED WITH	4-WAY	3-WAY	DOUBLE POLE	SWITCH: SINGLE POLE (HORSEPOWER RATED WHEN USED AS MOTOR DISCONNECT)	EMERGENCY REMOTE LAMP	DASHED LINES INDICATE EXISTING FIXTURES, DEVICES, OR EQUIPMENT	RGENCY CRITICAL BRANCH	FIXTURE CONNECTED TO EMERGENCY LIFE SAFETY POWER	SURFACE FLUORESCENT RECESSED FLUORESCENT	SUSPENDED FIXTURE	CEILING EXIT SIGN, SHADED SIDE INDICATES LIGHTED FACE,ARROWS INSTALLED AS SHOWN		SURFACE OR, RECESSED MOUNTED CEILING-MOUNTED JUNCTION BOX ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER;	CONNECTED TO EMERGENCY LIFE SAFETY POWER	CEILING SURFACE MOUNTED LIGHT FIXTURE, CAPITAL LETTER INDICATES FIXTURE RECESSED CEILING MOUNTED LIGHT FIXTURE, CAPITAL LETTER INDICATES FIXTURE	DESCRIPTION
													воттом оғ	LENS 80 INCHES	BOTTOM OF LENS 80 INCHES	BOTTOM OF LENS 80 INCHES					48 INCHES					18 INCHES	OINCIP	18 INCHES	18 INCHES		48 INCHES	48 INCHES	48 INCHES	48 INCHES	48 INCHES	48 INCHES	48 INCHES	48 INCHES	48 INCHES	7 FOOT 6 INCHES	7 FOOT & INCHES				DOOR FRAME TO BOTTOM	6 INCHES ABOVE	18 INCHES				CENTER OF DEVICE UNLESS OTHERWISE INDICATED
MCCB	(-	(E)	#10					(3)	₹ C	Z D	▼NSR	₹ <mark>x</mark> SA	\(\frac{1}{2}\)	TNCB	▼ 2 2	Z Z J	· \$	Z M	Z K	₹ 0	EW)	À WP	c 2	HBO	<u></u>	HPB C) Š	₹ N	፟ ‹	⇒ ∢	D	₹	√	₹ \$2	M PP	<u>+M</u>	₩ S	S [Z G	<u> </u>	S	₹ 7.7.	æ ₹	→ \ \$	<u></u>	<u></u>		₫ ₫	- 9 ⊈ 1	VFD	SYMBOLS
COMMUNICATIONS CABLE SUPPORT HANGER MOLDED CASE CIRCUIT BREAKER	WIRE BASKET TYPE CABLE TRAY	SURFACE CONDUIT OR SURFACE RACEWAY	PROVIDE QUANTITY AS REQUIRED FOR CIRCUIT NUMBERS SHOWN, SWITCHING ARRANGEMENT, OR NUMBER OF HOME RUNS SHOWN. '#10' INDICATES WIRE SIZE, NO NUMBERS INDICATES #12, 3/4 INCH CONDUIT MINIMUM.	CONDUIT CONCEALED IN FLOOR	CONDUIT DOWN	CONDUIT UP	CONDUIT CONCEALED IN WALL OR CEILING, QUANTITY OF CONDUCTORS NOT SHOWN, PROVIDE AS REQUIRED FOR DEVICE/CIRCUIT NUMBERS SHOWN.	TELEMETRY ANTENNA	UNIT INTERFACE	EMERGENCY PUSH BUTTON	STAFF REGISTER	STAFF ASSIST	NURSE LOCATOR	EMERGENCY (CODE BLUE)	DOUBLE BED PATIENT STATION	DUTY STATION	SINGLE BED PATIENT STATION	PATIENT EMERGENCY STATION	MASTER STATION		ABOVE COUNTER		CONTACTOR (NUMBER INDICATES NUMBER OF POLES)	BELL	KEY OPERATED POWER DISCONNECT WALL SWITCH	PUSH BUTTON	INTERCOM STAFF STATION	INTERCOM MASTER	INTERCOM OUTLET	TELEVISION OUTLET	DATA PATCH PANEL	TELEPHONE OUTLET ("W" INDICATES WALL MOUNTED AT 48 INCHES)	NO NUMBER INDICATES ONE) (NUMBER INDICATES ONE) (NUMBER INDICATES ONE) (NUMBER INDICATES ONE)	COMPUTER OUTLET (NUMBER INDICATES QUANTITY OF CABLES AND JACKS,	MOTION SENSOR SWITCH POWER PACK	WALL MOUNTED LARGE AREA MOTION SENSOR SWITCH	WALL MOUNTED SMALL AREA MOTION SENSOR SWITCH	CEILING MOUNTED MOTION SENSOR SWITCH	CARD READER CAMERA	DOOR POSITION SWITCH	DOOR POSITION SWITCH, SURFACE MOUNT		SECURITY DEVICES: REQUEST TO EXIT	MICROPHONE OUTLET	CLOCK	SPEAKER WALL MOUNTED SPEAKER	HASH MARKS INDICATE ITEM NOTED TO BE REMOVED	THERMOSTAT - FURNISHED BY DIVISION 15, INSTALLED BY DIVISION 16	SWITCH (MOTOR OVERLOAD	VARIABLE FREQUENCY DRIVE BY DIVISION 15	DESCRIPTION
			·	7						48 INCH		48 INCHES				48 INCHES		48 INCHES							48 INCH				18	18 INCHES	<u>,</u>	18 INCHES	18	18 0		84 INCHES	48		48 INCHES			DOOR FRAME	48 INCHES 3 INCHES ABOV	18 INCH	TO BOTTOM 78 INCHES TO BOTTOM	90 INC		48 INCHES	48 INCHES		CENTER OF DEVICE UNLESS OTHERWISE INDICATED

OMEGA OMEGA OR EQUAL BY OR EQUAL BY ORESCOLITE, HUBBELL, PORTFOLIO, INFINITY, LIGHTOLIER OM61-H32PLT-SRD- SWR-MVOLT 1	ALKCO OR APPROVED BN3000 SERIES SUBSTITUTION 2	EXISTING FIXTURE 2PM3N SERIES SALVAGED FROM 3 DEMOLITION 3	LITHONIA 2PM3N SERIES OR EQUAL 3	EXISTING FIXTURE 2PM3N SERIES SALVAGED FROM DEMOLITION 3	LITHONIA 2PM3N SERIES OR EQUAL 3	EXISTING FIXTURE SP SERIES SALVAGED FROM DEMOLITION 3	LITHONIA SP SERIES OR EQUAL 3	PE MANUFACTURERS CATALOG 10.	
CF32TRT	F17T8	F17T8	F17T8	F28T8	F28T8	F28T8	F28T8	AMP DATA	
_		_	_	_	_	_	_	NO.	
ELECTRONIC	HIGH EFFICIENCY ELECTRONIC	ELECTRONIC	HIGH EFFICIENCY ELECTRONIC	ELECTRONIC	HIGH EFFICIENCY ELECTRONIC	ELECTRONIC	HIGH EFFICIENCY ELECTRONIC	LLAST DATA TYPE	
36	29	46	44	78	72	78	72	INPUT WATTS	
MVOLT	MVOLT	120	MVOLT	120	MVOLT	120	MVOLT	VOLTAGE MOUNTING	LUMINAIRE
CEILING	WALL SURFACE	RECESSED LAY-IN	RECESSED LAY-IN	RECESSED LAY-IN	RECESSED LAY-IN	RECESSED LAY-IN	RECESSED LAY—IN	MOUNTI	SCHEDULE
SHALLOW RECESSED SHOWER LIGHT, 6 INCH APERATURE STIPPLED CLEAR POLYCARBONATE LENS, WHITE POLYCARBONATE TRIM RING. U.L. LISTED FOR WET LOCATION.	2 FOOT OVER MIRROR FLUORESCENT BULLET NOSE WALL BRACKET, WHITE FINISH, DOWN LIGHT ONLY, PRISMATIC LENS. MOUNT 3 INCHES ABOVE MIRROR.	2'X2' LAY—IN STATIC FLUORESCENT PARABOLIC LUMINAIRE, 3" PARABOLIC LOUVER WITH SEMI—SPECULAR LOUVER FINISH, 9 CELL, DOOR TO HAVE BLACK REVEAL.	2'X2' LAY—IN STATIC FLUORESCENT PARABOLIC D LUMINAIRE, 3" PARABOLIC LOUVER WITH SEMI—SPECULAR LOUVER FINISH, 9 CELL, DOOR TO HAVE BLACK REVEAL.	2'X4' LAY—IN STATIC FLUORESCENT PARABOLIC D LUMINAIRE, 3" PARABOLIC LOUVER WITH SEMI—SPECULAR LOUVER FINISH, 18 CELL, DOOR TO HAVE BLACK REVEAL.	2'X4' LAY—IN STATIC FLUORESCENT PARABOLIC D LUMINAIRE, 3" PARABOLIC LOUVER WITH SEMI—SPECULAR LOUVER FINISH, 18 CELL, DOOR TO HAVE BLACK REVEAL.	2'X4' STATIC LAY—IN FLUORESCENT TROFFER, D ROLLED EDGE OR POST PAINTED HOUSING, REGRESSED WHITE ALUM. DOOR, SPRING LOAD LATCHES, .125 INCH ACRYLIC PRIMATIC LENS.	2'X4' STATIC LAY—IN FLUORESCENT TROFFER, D ROLLED EDGE OR POST PAINTED HOUSING, REGRESSED WHITE ALUM. DOOR, SPRING LOAD LATCHES, .125 INCH ACRYLIC PRIMATIC LENS.	NG FIXTURE DESCRIPTION)ULE
	PROVIDE INTEGRAL BALLAST DISCONNECT (FACTORY INSTALLED) FOR EACH BALLAST.	ACCEPTABLY CLEAN FIXTURE, RELAMP AND REMOUNT IN NEW CEILING GRID.	PROVIDE INTEGRAL BALLAST DISCONNECT (FACTORY INSTALLED) FOR EACH BALLAST.	ACCEPTABLY CLEAN FIXTURE, RELAMP AND REMOUNT IN NEW CEILING GRID.	PROVIDE INTEGRAL BALLAST DISCONNECT (FACTORY INSTALLED) FOR EACH BALLAST.	ACCEPTABLY CLEAN FIXTURE, RELAMP AND REMOUNT IN NEW CEILING GRID.	PROVIDE INTEGRAL BALLAST DISCONNECT (FACTORY INSTALLED) FOR EACH BALLAST.	REMARKS	

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- IMINAIRE SCHEDULE GENERAL NOTES:

 LUMINAIRE TYPES DEFINED WITH A MANUFACTURER'S SERIES FOLLOWED BY "OR EQUAL" DO NOT REQUIRE PRIOR APPROVAL FOR SUBSTITUTED PRODUCTS TO BID, HOWEVER, THIS DOES NOT ALLEVIATE THE SUBSTITUTED PRODUCT FROM MEETING OR EXCEEDING THE QUALITIES AND STANDARDS SET FORTH OF THE LISTED MANUFACTURER AND SERIES.
- LUMINAIRE TYPES DEFINED WITH A MANUFACTURER'S SERIES FOLLOWED BY "OR APPROVED SUBSTITUTION" DOES REQUIRE PRIOR APPROVAL FOR SUBSTITUTED PRODUCTS TO BID, HOWEVER, THIS DOES NOT ALLEVIATE THE SUBSTITUTED PRODUCT FROM MEETING OR EXCEEDING THE QUALITIES AND STANDARDS SET FORTH OF THE LISTED MANUFACTURER AND SERIES.
- 3. COLOR TEMPERATURE OF ALL LAMPS ON THIS PROJECT IS 4100K UNLESS OTHERWISE SPECIFIED.

- GENERAL ELECTRICAL NOTES (APPLY TO ALL DRAWINGS):

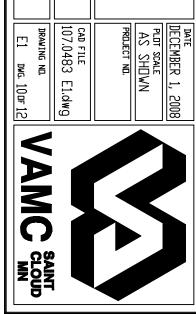
 1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND SHALL COORDINATE EQUIPMENT INSTALLATION WITH VA ENGINEERING STAFF.

 2. CONTRACTOR SHALL REPLACE ANY ACOUSTICAL CEILING TILES, PORTIONS OF THE SUSPENSION SYSTEM OR EXPOSED GRID SYSTEM DAMAGED BY HIS WORK OR REMOVAL OF EXISTING EQUIPMENT.
- CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT. EQUIPMENT, PARTS, AND TOOLS SHOULD BE SECURED AND MONITORED WHEN WORK IS TO BE DONE IN PATIENT AREAS.

 ALL CONDUIT PENETRATING THE FLOOR SLAB OR SMOKE BARRIER SHALL BE SEALED TIGHT WITH AN APPROVED FIRE STOP SEALANT RESTORING THE FLOOR SLAB OR SMOKE BARRIER TO ITS ORIGINAL RESISTANCE, REFERENCE SPECIFICATION SECTION 078400.
- ALL ELECTRICAL CONDUIT SHALL BE CONCEALED IN WALLS OR CEILINGS IN FINISHED AREAS UNLESS ALLOWED OTHERWISE ON THE PLANS.
- VA MEDICAL STAFF WILL BE CONDUCTING THEIR NORMAL DUTIES IN ALL AREAS OF THE BUILDING DURING CONSTRUCTION. CARE SHALL BE TAKEN TO MINIMIZE DISRUPTION OF HOSPITAL FUNCTIONS AT ALL TIMES. CONTRACTOR SHALL CONFINE WORK TO IMMEDIATE AREA CONCERNED AND SHALL MAINTAIN CLEANLINESS AND PATHWAY TO EXITS AT ALL TIMES. ALL FIRE ALARM, NURSE CALL AND ELECTRICAL SYSTEM SHUTDOWNS TO BE SCHEDULED 48 HOURS IN ADVANCE WITH THE VA AND MAY BE REQUIRED TO BE ACCOMPLISHED OUTSIDE NORMAL WORKING HOURS.
- 9.
- 10. FOR THE DEMOLITION PLANS, NOT ALL ELECTRICAL ITEMS REQUIRING DEMOLITION MAY BE SHOWN. VISIT SITE BEFORE BIDDING AND BECOME FAMILIAR WITH WORK REQUIRED. DUST BARRIERS SHALL BE PROVIDED DURING CUTTING AND PATCHING OPERATIONS. NOISE SHALL BE KEPT TO A MINIMUM AND DRILLING AND OTHER NOISE PRODUCING OPERATIONS MAY HAVE TO BE ACCOMPLISHED AFTER NORMAL WORKING HOURS. COORDINATE TIMES AND LOCATIONS FOR NOISY OPERATIONS WITH THE VA.
- CONTRACTORS ARE TO COORDINATE ALL WORK WITH THE CONTRACTING OFFICERS TECHNICAL REPRESENTATIVE (COTR). CLEAN ALL DEBRIS FROM THE CONSTRUCTION SITE TO THE SATISFACTION OF THE COTR.
- 12. REFERENCE ARCHITECTURAL GS FOR WORK PHASING DIAGRAM.
- ELECTRICAL SYMBOL LEGEND AND LUMINAIRE SCHEDULE BUILDING 29 BASEMENT HVAC

I hereby certify that this plan specification, or report was prepared by me or under my direct supervision, and that I am duly Registered Engineer under the laws of the State of Minnesota.

Print Name:



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VA MEDICAL CENTER
ST.CLOUD, MN 56303



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